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By: Barbara Bryant
Barbara Bryant

Date: July 7, 2004

Patent
Attorney Docket No.: P-082-US3
Customer No. 27038

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	
GRIFFIN et al.	Group Art Unit: 1624
Application No.: 10/824,005	Examiner: Not yet assigned
Filed: April 14, 2004	
For: PROTEIN KINASE INHIBITORS	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 CFR §1.56, Applicants hereby submit the following information in conformance with CFR §§1.97 and 1.98. Enclosed herewith is a PTO/SB/08a form that lists the documents being submitted for consideration by the Examiner. Copies of the cited documents are also enclosed herewith, except as noted below.

The filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made (37 C.F.R. §1.97(g)), or as an admission that the information cited is, or is considered to be, material to patentability (37 C.F.R. §1.97(h)).

Copies of cited U.S. patents and published patent applications are not being provided with this Information Disclosure Statement, since the USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit such documents for U.S. national patent applications filed after June 30, 2003 (see 1276 *Off. Gaz. Pat. Off.* 55, Aug. 5, 2003). Copies of all other cited documents are enclosed herewith.

Consideration of the listed documents is respectfully requested. Additionally, the Examiner is respectfully requested to return an initialed copy of the enclosed PTO/SB/08a form to Applicants with the next official action in this application.

This Information Disclosure Statement is being filed before the mailing date of a first official action on the merits for this application and therefore, no fee or certification is required under 37 CFR §1.97(b). In the event that an Office Action is mailed prior to receipt of this paper, the Commissioner is hereby authorized to charge the requisite fees under 37 CFR §1.97(c) for submission of this paper to Deposit Account No. 50-0344.

Should there be any questions concerning the cited documents, the Examiner is encouraged to telephone the undersigned attorney for Applicants at (650) 808-6144 (direct).

Respectfully submitted,

THERAVANCE, INC.

Date: July 7, 2004

By: Joyce Cohen
Joyce G. Cohen
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 5

Complete if Known	
Application Number	10/824,005
Filing Date	April 14, 2004
First Named Inventor	John H. GRIFFIN
Art Unit	1624
Examiner Name	Not yet assigned
Attorney Docket Number	P-082-US3

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.[1]	Document Number Number - Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	US- 5,397,787	03-14-1995	Buzzetti et al.	
	A2	US- 5,461,146	10-24-1995	Lewis et al.	
	A3	US- 5,521,184	05-28-1996	Zimmermann	
	A4	US- 5,593,991	01-14-1997	Adams et al.	
	A5	US- 5,593,992	01-14-1997	Adams et al.	
	A6	US- 5,670,527	09-23-1997	Adams et al.	
	A7	US- 5,945,418	08-31-1999	Bemis et al.	
	A8	US- 5,977,103	11-02-1999	Adams et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3] - Number[4] - Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	B1	WO 94/26260	11-24-1994	Yissum Research Dev. Company of Hebrew Univ		
	B2	WO 96/21452	07-18-1996	Smithkline Beecham Corp		
	B3	WO 96/33980	10-31-1996	Zeneca Limited		
	B4	WO 96/34867	11-07-1996	Warner-Lambert Co.		
	B5	WO 97/19065	05-29-1997	Celltech Therapeutics		
	B6	WO 97/40019	10-30-1997	Celltech Therapeutics		
	B7	WO 98/18782	05-07-1998	Celltech Therapeutics		
	B8	WO 98/37881	09-03-1998	Warner Lambert Co.		
	B9	WO 99/24442	05-20-1999	Ariad Pharmaceuticals		
	B10	WO 00/61578	10-19-2000	Sloan-Kettering Institute		

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Sheet 2 of 5

Complete if Known	
Application Number	10/824,005
Filing Date	April 14, 2004
First Named Inventor	John H. GRIFFIN
Group Art Unit	1624
Examiner Name	Not yet assigned
Attorney Docket Number	P-082-US3

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	C1	Adams et al., "Recent progress towards the identification of selective inhibitors of serine/threonine protein kinases", Current Opinion in Drug Discovery & Development, Vol. 2(2), pp 96-109 (1999)	
	C2	Ayyangar et al., "Anthraquinone and Anthrone Series-XXIII/The Non-Identity of 1:3:8-Trihydroxy-2-Hydroxymethyl-Anthraquinone with Versicolorin and a Synthesis of Damnacanthol and Damnacanthal", Tetrahedron , Vol. 6, pp 331-337 (1959)	
	C3	Bajaj et al., "Improved Preparative Synthesis of Piceatannol (3,4,3',5'-Tetrahydroxy-*Trans*-Stilbene), Rev. Latinoamer Quim., Vol. 18(2), pp 79-80 (1987)	
	C4	Bit et al., "Inhibitors of Protein Kinase C. 3. Potent and Highly Selective Bisindolylmaleimides by Conformational Restriction", J. Med. Chem., Vol. 36, pp 21-29 (1993)	
	C5	Bullington et al., "The Development of Novel and Selective $p56^{lck}$ Tyrosine Kinse Inhibitors", Bioorganic & Medicinal Chemistry Letters 8, pp 2489-2494 (1998)	
	C6	Bunin et al., "[26] Synthesis and Evaluation of 1,4-Benzodiazepine Libraries", Methods in Enzymology, Vol. 267, pp 448-465 (1996)	
	C7	Connolly et al., "Discovery and Structure-Activity Studies of a Novel Series of Pyrido[2,3-*d*]Pyrimidine Tyrosine Kinase Inhibitors", Bioorganic & Medicinal Chemistry Letters, Vol. 7, No. 18, pp 2415-2420 (1997)	
	C8	Duncia et al., "MEK Inhibitors:The Chemistry and Biological Activity of U0126, Its Analogs, and Cyclization Products", Bioorganic & Medicinal Chemistry Letters, Vol. 8, pp 2839-2844 (1998)	
	C9	Faltynek et al., "Damnacanthal Is a Highly Potent, Selective Inhibitor of $p56^{lck}$ Tyrosine Kinase Activity", Biochemistry, Vol. 34, pp 12404-12410 (1995)	
	C10	Fry et al., "Specific, irreversible inactivation of the epidermal growth factor receptor and erbB2, by a new class of tyrosine kinase inhibitor", Proc. Natl. Acad. Sci, USA, Vol. 95, pp 12022-12027 (1998)	
	C11	Furet et al., "Structure-Based Design, Synthesis, and X-ray Crystallography of a High-Affinity Antagonist of the Grb2-SH2 Domain Containing an Asparagine Mimetic", J. Med. Chem., Vol. 42, pp 2358-2363 (1999)	

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Sheet 3 of 5

Complete if Known	
Application Number	10/824,005
Filing Date	April 14, 2004
First Named Inventor	John H. GRIFFIN
Group Art Unit	1624
Examiner Name	Not yet assigned
Attorney Docket Number	P-082-US3

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	C12	Hamby et al., "Structure-Activity Relationships for a Novel Series of Pyrido[2,3-*d*]pyrimidine Tyrosine Kinase Inhibitors", J. Med. Chem. Vol. 40, pp 2296-2303 (1997)	
	C13	Hanefeld et al., "One-pot synthesis of tetrasubstituted pyrazoles-proof of regiochemistry", J. Chem. Soc., Perkin Trans. 1, pp 1545-1552 (1996)	
	C14	Hanke et al., "Discovery of a Novel, Potent, and Src Family-selective Tyrosine Kinase Inhibitor", The Journal of Biological Chemistry, Vol. 271, No. 2, Issue of January 12, pp 695-701 (1996)	
	C15	Henry et al., "Potent Inhibitors of the Map Kinase p38", Bioorganic & Medicinal Chemistry Letters 8, pp 3335-3340 (1998)	
	C16	Henry et al., "6-Amino-2-(4-fluorophenyl)-4-methoxy-3-(4-pyridyl)-1*H*-pyrrolo[2,3-*b*]pyridine (RWJ 68354):A Potent and Selective p38 Kinase Inhibitor", J. Med. Chem., Vol. 41, pp 4196-4198 (1998)	
	C17	Klutchko et al., "2-Substituted Aminopyrido[2,3-*d*]pyrimidin-7(8*H*)-ones. Structure-Activity Relationships Against Selected Tyrosine Kinases and in Vitro and in Vivo Anticancer Activity", J. Med. Chem, Vol. 41, pp 3276-3292 (1998)	
	C18	Lawrence et al., "Protein Kinase Inhibitors: The Tyrosine-Specific Protein Kinases", Pharmacol. Ther., Vol. 77, No. 2, pp 81-114 (1998)	
	C19	Levitzki et al., "Tyrosine Kinase Inhibition:An Approach to Drug Development", Science, Vol. 267, pp 1782-1788 (1995)	
	C20	Maly et al., "Combinatorial target-guided ligand assembly:Identification of potent subtype-selective c-Src inhibitors", PNAS, Vol. 97, No. 6, pp 2419-2424 (2000)	
	C21	Myers et al., "The Preparation and SAR of 4-(Anilino), 4-(Phenoxy), and 4-(Thiophenoxy)-Quinazolines: Inhibitors of $p56^{lck}$ and EGF-R Tyrosine Kinase Activity.", Bioorganic & Medicinal Chemistry Letters, Vol. 7, No. 4, pp 417-420 (1997)	
	C22	Profit et al., "Bivalent Inhibitors of Protein Tyrosine Kinases", J. Am. Chem. Soc., Vol. 121, pp 280-283 (1999)	

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Sheet 4 of 5

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Filing Date	April 14, 2004
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	C23	Ramdas et al., "Benzodiazepine Compounds as Inhibitors of the Src Protein Tyrosine Kinase: Screening of a Combinatorial Library of 1,4-Benzodiazepines", Archives of Biochemistry and Biophysics, Vol. 368, No. 2, pp 394-400 (1999)	
	C24	Schoepfer et al., "Highly Potent Inhibitors of the Grb2-SH2 Domain", Bioorganic & Medicinal Chemistry Letters, Vol. 9, pp 221-226 (1999)	
	C25	Shibuya et al., "Syntheses of Two Pairs of Enantiomeric C18-Sphingosines and a Palmitoyl Analogue of Gaucher Spleen Glucocerebroside", Chem. Pharm. Bull., Vol. 40(5), pp 1154-1165 (1992)	
	C26	Smyth et al., "Non-Amine Based Analogues of Lavendustin A as Protein-Tyrosine Kinase Inhibitors", J. Med. Chem., Vol. 36, pp 3010-3014 (1993)	
	C27	Stover et al, "Recent advances in protein kinase inhibition: Current molecular scaffolds used for inhibitor synthesis", Current Opinion in Drug Discovery & Development, Vol. 2(4), pp 274-285 (1999)	
	C28	Sun et al., "Synthesis and Biological Evaluation of 3-Substituted Indolin-2-ones: A Novel Class of Tyrosine Kinase Inhibitors That Exhibit Selectivity toward Particular Receptor Tyrosine Kinases", J. Med. Chem., Vol. 41, pp 2588-2603 (1998)	
	C29	Tamaoki et al., "Staurosporine, A Potent Inhibitor of Phospholipid/Ca++ Dependent Protein Kinase", Biochemical and Biophysical Research Communications, Vol. 135, No. 2, pp 397-402 (1986)	
	C30	Trumpp-Kallmeyer et al., "Development of a Binding Model to Protein Tyrosine Kinases for Substituted Pyrido[2,3-*d*]pyrimidine Inhibitors", J. Med. Chem., Vol. 41, pp 1752-1763 (1998)	
	C31	Vu et al., "Discovery of Potent and Selective SH2 Inhibitors of the Tyrosine Kinase ZAP-70", J. Med. Chem., Vol. 42, pp 4088-4098 (1999)	
	C32	Williams et al., "Ro 09-2210 Exhibits Potent Anti-proliferative Effects on Activated T Cells by Selectively Blocking MKK Activity", Biochemistry, Vol. 37, pp 9579-9585 (1998)	
	C33	Yao et al., "Potent Inhibition of Grb2 SH2 Domain Binding by Non-Phosphate-Containing Ligands", J. Med. Chem., Vol. 42, pp 25-35 (1999)	

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Sheet 5 of 5

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	C34	Zimmermann et al., "Phenylamino-Pyrimidine (PAP) Derivatives: A New Class of Potent and Selective Inhibitors of Protein Kinase C (PKC), Arch. Pharm. Pharm. Med. Chem., Vol. 329, pp 371-376 (1996)	

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